



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Jason D. Prone

Group Art Unit 3724

In re Application of:
WILLIAM GEORGE ALTON

Serial No. 10/008,820

Filed November 13, 2001

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: BANDSAW BLADE WITH
: CUTTING EXTENSION
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: Attorney Docket No. 287108-00001
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DECLARATION OF WILLIAM GEORGE ALTON

RECEIVED
JUN 02 2003

TECHNOLOGY CENTER R370

Sir:

1. I, WILLIAM GEORGE ALTON, am the inventor of the captioned invention.
2. I have been involved with the manufacture of saw blades, including bandsaw blades, for a period of seven years.
3. Prior art bandsaw blades utilized two primary methods of cutting a channel while reducing stress on the teeth of the bandsaw. First, various teeth in a sequential series of teeth could be bent at slightly different angles so the tooth would impact a different portion of the channel being cut. Second, teeth in a sequential series could have a variation in the height relative to the width of the tooth, that is, a thinner taller tooth or a shorter wider tooth. As such, each tooth would impact a different portion of the channel being cut.
4. The present invention does not utilize either of the methods known in the prior art. The present invention utilizes a tooth having a cutting extension extending upwardly from the tooth.
5. To reduce the stress on each tooth, the cutting extension only has a width that is less than the width of the channel to be cut by the saw blade. However, there must be a cutting extension impacting each portion of the channel to be cut.
6. Accordingly, in the present invention a blade utilizing three cutting extensions must have cutting extensions impacting at least one-third of the channel to

be cut. Similarly, a blade having four cutting extensions must have the extensions having a width sufficient to impact at least one quarter of the channel being cut.

7. One skilled in the art of bandsaw design and manufacture would realize that the number of cutting extensions irrelevant so long as a cutting extension in each series of teeth is structured to impact all portions of the channel to be cut.

8. In the present invention Figures 4A, 5A and 6A is a bandsaw having the invention embodied in three cutting extensions. The saw shown in Figures 4B, 5B and 6B is the embodiment of the present invention showing four cutting extensions. The bandsaw shown in Figures 4C, 5C and 6C is the embodiment of the present invention having five cutting extensions. Additionally, the embodiment shown in Figures 7A, 7B, and 7C and 8A, 8B, and 8C are further obvious variations on the theme of having a cutting extension wherein the cutting extension on a single tooth only cuts a portion of the channel to be cut, however, the cutting extensions on the series of teeth impact the entire channel to be cut.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

William George Altom
William George Altom

5-19-03
Date